

TUKACHINSKIY, S.Ye.; MOISEYEVA, V.P.; KUZNETSOVA, V.N.

Diagnostic value of the reaction for C-reactive protein in
some surgical diseases (Review of Soviet and foreign literature).
Vest.khir. no.8:18-23 '61. (MIRA 15:3)

1. Iz khirurgicheskoy kliniki biofizicheskoy laboratorii (zav. -
S.Ye. Tukachinskiy) Leningradskogo nauchno-issledovatel'skogo
ordena Trudovogo Krasnogo Znameni instituta perelivaniya krovi
(nauchn. rukovod. - prof. A.N. Filatov).
(PROTEINS) (DIAGNOSIS, DIFFERENTIAL) (BLOOD—DISEASES)

TUKACHINSKIYY, S.Ye.; SHCHAGINA, L.V.

Aggregation of human serum albumin under conditions of heat denaturation. *Biokhimiia* 26 no.4:586-591 J1-Ag '61. (MIRA 15:6)

1. Biophysical Laboratory, Institute of Blood Transfusion,
and Laboratory of Physics of Polymers, State University, Leningrad.
(ALBUMIN)

TUKACHINSKIY, S.Ye.; MOISEYEVA, V.P.

Cx-reactive protein in radiation sickness. Biul. eksp. biol. i med.
52 no.8:48-52 Ag '61. (MIRA 15:1)

1. Iz biofizicheskoy laboratorii (zav. S.Ye. Tukachinskiy) Leningrad-
skogo instituta perelivaniya krovi (dir. - dotsent A.D.Belyakov,
nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.N.Filatov).
Predstavlena deystvitel'nym chlenom AMN SSSR I.R. Petrovym.
(BLOOD PROTEINS) (RADIATION SICKNESS)

IVANOV, I.I.; MIROVICH, N.I.; ZHAKHOVA, Z.N.; TUKACHINSKIY, S.Ye.

Fractional composition of myofibril proteins in various types of
muscles. Biokhimiia 27 no.1:94-100 Ja-F '62. (MIRA 15:5)

1. Chair of Biochemistry, Pediatric Medical Institute, and Biochemical
Laboratory, Institute of Obstetrics and Gynaecology, Academy of Medical
Sciences of the U.S.S.R., and Biophysical Laboratory, Institute of
Blood Transfusion, Leningrad.

(PROTEINS)

(MUSCLES)

MEL'TEVA, N.N.; REZNICHENKO, M.S.; TUKACHINSKIY, S.Ye.; SHCHAGINA, L.V.

Study of terminal and middle amino groups in native and denatured
human serum albumin. Biokhimiia 25 no.2:255-261 Mr-Apr '60.
(MIRA 14:5)

1. Kafedra khimii Leningradskogo instituta sovetskoy trgovli.
(BLOOD PROTEINS)

TUKACHINSKIY, S. YE, YURIEV, V. A., ZHAKHOVA, Z. N., IVANOV, I. I.,
BERG, YU. N., LEBEDEVA, N. A., LOPATINA, N. I., and MIROVICH, N. I.
(USSR)

"Proteins of various Muscle Myofibrils and the Problem of Tone."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

ACC NR: AP5021959

UR/002:76573 1644.2

AUTHOR: Tukalevs'ka, N. I.; (Tukalevskaya, N. I.)

TITLE: A method of solving linear integral equations of the Volterra type

SOURCE: AN UkrSSR, Dopovidi, no. 8, 1965, 998-1002

TOPIC TAGS: integral equation, Volterra equation, approximation convergence

ABSTRACT: A Volterra type inhomogeneous integral equation of the second type

$$\varphi(x) = f(x) + \int_0^x K(x, s)\varphi(s)ds,$$

is considered, where the function $f(x)$ is continuous in the range $[0, 1]$ and the function $K(x, s)$ is a bounded kernel of the first kind in the range $0 \leq s \leq x < 1$. It is shown that a series representation of $\varphi(x)$, satisfying Eq. (1), converges absolutely and uniformly. A table for estimating the error of the n -th approximation is presented and an example is worked out. Orig. art. has: 22 formulas and 1 table.

ASSOCIATION: Instytut matematyky AN URSR [Institut matematiki AN UkrSSR] (Mathematics Institute, UkrSSR) 44 55

SUBMITTED: 02Sep64

ENCL: 00

SUB CODE: MA

NR REF SOV: 001

OTHER: 001

Card 1/1 PC

TUKALEVSKAYA, N.I. [Tukalevs'ka, N.I.]

Method for solving Volterra-type linear integral equations.
Dop. AN URSS no.8:998-1002 '65. (MIRA 18:8)

1. Institut matematiki AN UkrSSR.

TUKALEVSKAYA, N.I. (Kiyev); HESTENCHUK, A.V. (Kiyev)

Method for solving Volterra-type linear integral equations.
Ukr. mat. zhur. 17 no.1:95-101 '65. (MIRA 12:3)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410009-7

ACCESSION NR: AF5003210

$f(x)$, $g(x)$ and $n(x)$ are almost-everywhere continuous functions of x

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410009-7"

TUKALEVSKAYA, N.I. [Tukaliyevs'ka, N.I.]; GAVRISH, I.P. [Havrysh, I.P.]

Mechanization of production processes in the Cherkassy
Clothing Factory. Leh.prom. no.1:44-45 Ja-Mr '64. (MIRA 19:1)

L 26579-66 EWT(d) IJP(c)
ACC NR: AP0011414

SOURCE CODE: UR/0021/66/000/003/0299/0302

AUTHOR: Tukaleva'ka, N. I. --Tukalevskaya, N. I. 30

ORG: Institute of Mathematics AN UkrSSR (Instytut matematyky AN UkrSSR) B

TITLE: Method of approximate solution of linear integral equations of the Volterra type in the class of L^p functions 16

SOURCE: AN UkrRSR. Dopovidi, no. 3, 1966, 299-302

TOPIC TAGS: Volterra equation, linear integral equation, approximate solution, algorithm

ABSTRACT: This is a continuation of earlier work (DAN URSR, 998, 1965) on the solution of the linear inhomogeneous integral equation of the second kind of the Volterra type

$$\varphi(x) = f(x) + \int_a^x K(x, s) \varphi(s) ds, \quad (1)$$

where the kernel $K(x, s)$ is represented in the form

$$K(x, s) = X(x)Y(s) + D(x, s), \quad (2)$$

where an algorithm was proposed for this solution. In the present article the author proves the convergence of this algorithm and establishes an estimate of the error of n -th approximation in the space L^p . This report was presented by Academician of AN UkrSSR Yu. O. Mytropol's'kyi (Yu. A. Mitropol'skiy). Orig. art. has: 22 formulas.

SUB CODE: 12/ SUBM DATE: 26Jun65/ ORIG REF: 001
Card 1/1

2

L 26579-66 EWT(d) IJP(c)
ACC NR: AF6011414

SOURCE CODE: UR/0021/66/000/003/0299/0302

AUTHOR: Tukalevs'ka, N. I. — Tukalevskaya, N. I.

ORG: Institute of Mathematics AN UkrSSR (Instytut matematyky AN UkrSSR)

TITLE: Method of approximate solution of linear integral equations of the Volterra type in the class of L^p functions

SOURCE: AN UkrSSR. Dopovid1, no. 3, 1966, 299-302

TOPIC TAGS: Volterra equation, linear integral equation, approximate solution, algorithm

ABSTRACT: This is a continuation of earlier work (DAN URSR, 998, 1965) on the solution of the linear inhomogeneous integral equation of the second kind of the Volterra type

$$\varphi(x) = f(x) + \int_a^x K(x, s) \varphi(s) ds, \quad (1)$$

where the kernel $K(x, s)$ is represented in the form

$$K(x, s) = X(x)Y(s) + D(x, s), \quad (2)$$

where an algorithm was proposed for this solution. In the present article the author proves the convergence of this algorithm and establishes an estimate of the error of n -th approximation in the space L^p . This report was presented by Academician of AN UkrSSR Yu. O. Mytropol's'kyy (Yu. A. Mitropol'skiy). Orig. art. has: 22 formulas.

SUB CODE: 12/ SUBM DATE: 26 Jun 65/ ORIG REF: 001
Card 1/1 -10

KONASHEVICH, V.A., inzh.; TUKALEVSKIY, I.M., kand.biolog.nauk

Controlling the European corn borer. Zashch. rast. ot vred. i bol.
8 no.5:16-17 My '63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut Grazhdanskogo
vozdušnogo flota i Zaporozhskaya sel'skokhozyaystvennaya opytnaya
stantsiya.

(European corn borer--Extermination)

TRACHENKO, M.I., starshiy nauchnyy sotrudnik; ~~TRACHENKO~~ TRACHENKO, I.M., kand.
biolog. nauk

Mechanizing the thermal disinfection of seeds. Zashch. rast.
ot vred. i bol. 9 no.2:30-31 '64. (MIRA 17:6)

TUKALEVSKIY, I.M., kand.biolog.nauk; ROGACHEV, V.L., starshiy nauchnyy
soтрудnik

New pest of tomatoes and potatoes in the south of the Ukraine.
Zashch. rast. ot vred. 1 bol. 4 no.5:54 S-O '59. (MIRA 16:1)

1. Sel'skokhozyaystvennaya opytная stantsiya, Zaporozh'ye.
(Zaporozh'ye Province--Tomatoes--Diseases and pests)
(Zaporozh'ye Province--Mites--Extermination)
(Zaporozh'ye Province--Potatoes--Diseases and pests)

TUKALEVSKIY, I.M., kand.biolog.nauk

Effectiveness of measures for controlling the European corn borer.
Zashch. rast. ot vred. i bol. 6 no.7:32 J1 '61. (MIRA 16:5)

1. Opytnaya sel'skokhozyaystvennaya stantsiya, Zaporozh'ye.
(Zaporozh'ye Province--European corn borer--Extermination)

TUKALLO, J.

The influence of the admixture of an extract of sulfite remains on the properties of concrete. p. 161
(MATERIALY BUDOWLANE. Vol. 12, no. 6, June 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957
UNcl.

POLAND/Chemical Technology - Chemical Products and Their
Application - Ceramics, Glass, Binders, Concrete.

H-13

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8814

possible to remove them from the molds, on hardening under
the normal conditions, before a period of 7 days. On use
of steaming the articles can not be placed into the cham-
ber earlier than 12 hours after they have been made.

Card 2/2

TUKALLO, Konstanty

Thrombophlebitis of the lower extremities. Pol. tyg. lek. 19
no.1:6-9 1 Ja'64

1. Z I Kliniki Chirurgicznej AM w Poznaniu; kierownik: prof.
dr. St. Nowicki.

*

NOWICKI, Stanisław; TUKALLO, Konstanty; NAFIERALA, Marian

Review of morbid symptoms in the obliterative arteriosclerosis of extremities. Pol. przegl. chir. 37 no.7:677-684 JI '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr. S. Nowicki).

WIERZBICKI, Jozef; ADAMIAKOWNA, Stanislaw; TUKALLO, Konstanty

Studies on blood circulation, proteins and serum electrolytes in patients with gastric cancer. Polski przegl. chir. 33 no. 7/9:752-754, '61.

1. Z I Kliniki Chirurgicznej w Poznaniu Kierownik: prof. dr St. Nowicki.

(STOMACH NEOPLASMS blood)
(BLOOD PROTEINS)

(ELECTROLYTES blood)
(BLOOD VOLUME)

WIERZBICKI, Jozef; ADAMIAK, Stanislaw; TUKALIO, Konstanty

Studies on circulating blood and on its components in gastric or duodenal hemorrhages. Polski przegl. chir. 30 no.5:466-469 May 58.

(DUODENUM, hemorrhage,
blood picture (Pol))

(STOMACH, hemorrhage,
same)

(BLOOD CELLS,
count in duodenal & gastric hemorrh. (Pol))

WIERZBICKI, Jozef; ADAMIAK, Stanislaw; TUKALPA, Konstanty

Determination of circulating blood in operated patients. Polski tygod.
lek. 13 no.32:1224-1228 11 Aug 58.

1. (Z I Kliniki Chirurgicznej A. M. w Poznaniu; kierownik: prof.
dr St. Nowicki). Pozana ul. Długa 1- I Klinika Chirurgiczna A. M.

(SURGERY, OPERATIVE

postop. blood volume & components (Pol))

(BLOOD VOLUME

postop. determ. (Pol))

(BLOOD

components, postop. determ. (Pol))

TUKALLO, Konstanty

Case of liver cirrhosis in an adolescent. Polski przegl. chir.
29 no.3:251-254 Mar 57.

1. Z I Kliniki Chirurgicznej A.M. w Poznaniu Kierownik: prof.
dr. St. Nowicki. Adres autora: Poznan, ul. Długa 1, I Klinika
Chirurgiczna.

(ADOLESCENCE, dis.
liver cirrhosis (Pol))
(LIVER CIRRHOSIS, case report
in adolescent (Pol))

TUKALLO, Konstanty

Vasomotor disorders in thrombophlebitis of the cutaneous
veins. Pol. przegl. chir. 35 no.4:313-321 '63.

1. Z I Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr
S. Nowicki.

(VASOMOTOR SYSTEM) (THROMBOPHLEBITIS)
(SKIN) (BLOOD PRESSURE) (BODY TEMPERATURE)
(BLOOD COAGULATION)

NOWICKI, Stanislaw; TUKALLO, Assistant,, Marian

Effect of conservative treatment on arteriosclerosis obliterans
of extremities. Pol. przegl. chir. 37 no.6:565-571 Je '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr.
S. Nowicki).

TUKALIO, Konstanty; FOPIEL, Feliks

Patellar fractures. Pol. przegl. chir. 37 no.8:769-772 Ag '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr.
S. Nowicki).

DOROSH, T.P.; TUKALO, Ye.A. [Tukalo, IE.A.]

Electrochemical method of isolating the glycoalkaloid tomatine from plants. Farmatsev. zhur. 16 no.1:44-47 '61.

(MIRA 17:8)

1. Kafedra analiticheskoy khimii (zaveduyushchiy kafedroy dotsent I.L. Kukhtevich) i kafedra tekhnologii lekarstv (zaveduyushchiy kafedroy dotsent V.K. Yashchenko [Iashchenko, V.K.]) Dnepropetrovskogo meditsinskogo instituta.

TUKALO, Ye. A.

Cand Pharm Sci - (diss) "Materials for the study of glyco-alkaloid tomatin, and dynamics of its accumulation in tomatoes." Dnepropetrovsk, 1959. 10 pp; (Ministry of Public Health USSR, First Moscow Med Inst imeni I. M. Sechenov); 200 copies; price not given; (KL, 10-61 sup, 228)

TUKALOV, R. I.

AUTHORS: Kirenskiy, L. V., Vlasov, A. Ya., Vtyurin, N. I. 48-2-12/26
Drokin, A. I., Ivlev, V. F., Tukalov, R. I.

TITLE: Note on the Temperature- and Circular-Hysteresis in Ferromagnetic
Substances (Temperaturnyy i vrashchatel'nyy gisteresis v ferromag-
netikakh).

PERIODICAL: Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 9,
pp. 1262-1267 (USSR.).

ABSTRACT: In this paper experimental investigations were conducted of: 1) The
temperature hysteresis of magnetization according to the B-cycle
(cooling-heating) (TMH), 2) the temperature hysteresis of magneto-
striction (TMH), 3) the temperature hysteresis of the galvanomagne-
tic effect (THGE) according to the A-cycle (heating-cooling), 4)
the phenomenon of the "circular" hysteresis of magnetostriction was
established and investigated parallel to the study of the losses in
rotating magnetic fields. The investigations were conducted on various
samples of nickel. On the examination of the TMH' effect thick samples
showed a much more marked effect than thin ones. If further cooling
is applied, the thicker samples are subject to the effect of the de-
magnetization factor, which reduces the originally weak field. The
importance of the energy of anisotropy grows, because of which fact

Card 1/2

Note on the Temperature- and Circular Hysteresis in
Ferromagnetic Substances.

48-9-12/26

the magnetization vectors of the domains do not arrange themselves parallel with the magnetic field, but along the easier direction of magnetization, which cannot coincide with the orientation of the weak field. It is shown, that the THM-effect diminishes with the growth of the field. No THM-effect is observed in fields of the order of magnitude of 100 Oe. Analogous observations were made in the case of the THGE-effect. The magnitude of THM and THGE depends on the initial temperature of heating and on the final point of heating (conversion point), if it is below the Curie point. Analysis of the magnetographs from the magnetic recorder showed, that the magnetostriction as well as the UHM-effect grows strongly with an increase of the field from 100 to 1000 Oe and on a further increase of the fields tends asymptotically to its maximum values. There are 11 figures and 8 Slavic references.

ASSOCIATION: State Institute for Pedagogics of Krasnoyarsk (Krasnoyarskiy gos. pedagogicheskiy institut).

AVAILABLE: Library of Congress.

Card 2/2

Tukalov R.I.
KIHENSKIY, L.V.; VLASOV, A.Ya.; VTYURIN, N.I.; DROKIN, A.I.; IVLEV, V.F.
TUKALOV, R.I.

Temperature and rotational hysteresis in ferromagnetic materials.
Izv. AN SSSR. Ser. fiz. 21 no.9:1262-1267 S '57. (MIRA 11:1)

1. Krasnoyarskiy gosudarstvennyy pedagogicheskiy institut.
(Magnetism) (Ferromagnetism)

TUKALOV, R.I.

TUKALOV, R. I.--"Temperature Hysteresis of the Solvency Effect in Nickel." Min Higher Education RSFSR. Moscow Oblast Pedagogical Inst. Moscow, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences).

SO: Knizhnye Letopis' No. 27, 2 July 1955

TUKALOV, R. I., IVLEV, V. F., DROKYN, A. I., VTYURIN, N. I., VLASOV, A. I.,
and KIRENSKIY, L. V.

"The Temperature and Rotation Hysteresis in Ferromagnetic Materials,"
a paper submitted at the International Conference on Physics of Magnetic
Phenomena, Sverdlovsk, 23-31 May 56.

S/139/60/000/004/031/033
E201/E591

AUTHOR: Tukalov, R.I.

TITLE: Temperature Hysteresis of the Galvanomagnetic Effect
in Nickel in the Region of Irreversible Magnetization

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,
1960, No.4, pp. 236-237

TEXT: Temperature hysteresis of the galvanomagnetic effect (magnetoresistance) in nickel was studied by means of a heating-cooling cycle in uniform 0 - 70 Oe fields produced by a suitable coil. A Wheatstone bridge was used in these measurements: one of its arms was a nickel sample inside the coil and another arm was an identical nickel sample not subjected to a magnetic field (two nickel samples were used in order to compensate for local changes of temperature). A mirror galvanometer and an automatic recorder were employed. Fig.1 shows magnetoresistance in a 24 Oe field as a function of temperature; the temperature hysteresis can be seen quite clearly. Fig.2 gives the temperature hysteresis ($\Delta\alpha$) as a function of an applied magnetic field. The quantity $\Delta\alpha$ is defined by

$$\Delta\alpha = \frac{\Delta R - \Delta R_0}{R_0}$$

Card 1/2

S/139/60/000/004/031/033
E201/E591

Temperature Hysteresis of the Galvanomagnetic Effect in Nickel in
the Region of Irreversible Magnetization

where ΔR_0 is the original magnetoresistance effect, ΔR is the
final magnetoresistance effect after a heating-cooling cycle and
 R_0 is the resistance at 20°C. Below 150°C maxima of $\Delta \alpha$ occur
at 22 Oe (Fig.2) and then $\Delta \alpha$ falls slowly but is still finite at
70 Oe. Above 150°C no $\Delta \alpha$ maxima are seen in Fig.2. It is
suggested that these effects are due to greater changes of the
domain structure during cooling than during heating. There are
2 figures and 2 Soviet references.

ASSOCIATION: SIBTsVETMETNIIPROEKT

SUBMITTED: March 31, 1959 (Initially)
February 1, 1960 (After revision)

Card 2/2

TUKALO, Ye.A. [Tukalo, IE.A.]; KHORON'KO, A.T.; MURATOVA, I.O.; KHASKIN,
Ye.A. [Khaskin, IE.A.]

Production training for students. Farmatsev. zhur. 17 no.5:82-84
'62. (MIRA 17:9)

1. Kafedra tekhnologii lekarstv Dnepropetrovskogo meditsinskogo
instituta.

TUKALOV, R.I.

Temperature hysteresis of the galvanomagnetic effect of nickel in
the irreversible region of magnetization. Izv. vys. ucheb. zav.;
fiz. no.4:236-237 '60. (MIRA 13:9)

1. Sibtvetmetniiprojekt.
(Nickel—Electrical properties)

TUKALOV, R.I., KYRENSKIY, L.V., VLASOV, A.I., VTIRIN, N.I., DROYKYN, A.I., IVLEV, V.F.

"The Temperature and Rotation Hysteresis in Ferromagnetic Materials"
Krasnoyarsk

Conference on Physics of Magnetic Phenomena,
May 1956, Sverdlovsk, USSR

TUKALOV, R. I.

"Temperature Hysteresis of the Galvanomagnetic Effect." Cand Phys-Math
Sci, Moscow Oblast Pedagogical Inst, Min Education RSFSR, Krasnoyarsk, 1954.
(KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (14)

USSR/Cultivated Plants - Potatoes. Vegetables. Melons. etc.

M.


Abs Jour : Ref Zhur - Biol., No 4, 1958, 15633

Author : Ye. Tukulova

Inst : The Moldavian Scientific Research Institute for Irrigational Agriculture and Vegetable Growing.

Title : Side Dressing Tomatoes and Cabbage.
(Podkormka pomidorov i kapusty).

Orig Pub : Zemledeliye i zhivotnovodstvo Moldavii, 1957, No 3, 59-61.

 Abstract : Based on experiments made at the Moldavian Scientific research Institute for Irrigational Agriculture and Begetable Growing practical recommendations are given on the application of side dressing to tomatoes and cabbage in the region about the Dniester River.

Card 1/1

TUKALEVA, Ye. I.

USSR/Cultivated Plants . Potatoes. Vegetables, Melons

M-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1560

Author : Ye. I. Tukaleva

Inst : Not Given

Title : Results of Research on the Application of Fertilizers for Potatoes

Orig Pub : Tr. Mold. ovoshche-dartof. orosit. opyt. st., Kishinev, Gosizdat Moldav, 1956, 255-276

Abstract : Based on tests conducted at the Moldavian vegetable and potato Irrigation Station, the application of an all-around mineral fertilizer is recommended for potatoes prior to planting: putting 20 kilograms per hectare of N, P and K into the ridges at the outset; when introduced into the furrows, the dose is doubled and, when applied in plowing, tripled. Supplemental feedings do not replace basic fertilization. Good results were also obtained by the local introduction, before planting, of 1 ton of humus and N_{40} , P_{40} and K_{40} per hectare. The introduction of fertilizers into summer planting is considered by the author as unsuitable.

Card : 1/1

VORONOKOV, B.S.; TUKAL' SKAYA, YE. M.

Geography & Geology

Requirements of industry as to the quality of mineral raw materials. Handbook for geologists--Moskva, Gos. izd-vo geologicheskoi lit-ry Komiteta po delam geologii pri SSSR, No. 21, Diatomite, tripoli, mar. 1947.

Monthly List of Russian Accessions, Library of Congress, October, 1952, UNCLASSIFIED

TUKALEVSKIY, M. N.

"Spontaneous Heating of Refuse and Rendering Pathogenic Bacteria Contained in It Harmless." Sub 11 Apr 51, Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

1. TUKALOVA, Y.E.

2. USSR (600)

4. Grasses

7. Increase in perennial grass root systems under irrigation. Sov.agron. 10
no. 11, 52

9. Monthly List of Russian Accessions, Library of Congress, ~~February~~ 1953. Unclassified.

TUKALOVA, YE.

Apr 1948

USSR/Soil Science - History

"History and Modern Status of Soil Science. Conference of Scientific Workers of the Don and Northern Caucasus," F. Gavriluk, Ye. Tkalova, 1 p

"Pochvoved" No 4

PA 69T103

1. TUKA LOVA YE.I.
2. USSR (600)
4. Roots (Botany)
7. Increase in perennial grass root systems under irrigation. Sov.agron. 10 no. 11 1952

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified

TUKAL'SKAYA, R.M.

Present status of the use of ilmenite and rutile as sources for
obtaining titanium ; (review). Razved. i okh. nedr 24 no.2:59-60
F '58. (MIRA 11:4)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii i
standartizatsii.

(Titanium ores)

VORONKOV, B. S., TUKAL'SKAYA, YE. M.

Geography and Geology.

Requirements of industry as to the quality of mineral raw materials. Handbook for geologists — Moskva, Gos. izd-vo geologicheskoi lit-ry Komiteta po delam geologii pri SNK SSSR, No. 21, Diatomite, tripoli, marh, 1947.

9. Monthly List of Russian Accessions, Library of Congress, October 195~~8~~², Uncl.

CHERNOSVITOV, Yu.L.; TUKAL'SKAYA, E.M.; BLINOV, V.A., nauchn. red.;
SERGEYEVA, N.A., red.; BYKOVA, V.V., tekhn.red.

[Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gosgeoltekhizdat. No.73. [Titanium] Titan. 1962. 74 p. (MIRA 16:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ia.
(Titanium)

TUKAN, K.; ILVITSKI, V., red.; TELPIS, V., tekhn. red.

[How we obtained 31 centners of sunflower seeds per hectare] Kum
am obtsinut kyte 31 chentnere de reserite la khëktar. Kak my po-
luchili 31 tsentner semian podsolnechnika s gektara. Kishineu,
Editura de stat "Kartia moldoveniaske," 1959. 10 p. [In Moldavian].
(MIRA 14:10)

(Sunflower seed)

TUKANOV, V. P.

Tukanov, V. P.

"Monuments in Soviet City Building." Moscow Architecture Inst. Moscow,
1955. (Dissertation for the Degree of Candidate in Architectural Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

where X_1 and X_2 = H, OH, NH₂, NO₂, R and R_1 = H, CH₃, C₂H₅, C₃H₇, C₄H₉, C₆H₅, CH₂=C₆H₄,
 tested with Fehling's solution yield X_1 , X_2 substituted benzaldehydes, formic acid and a substituted aromatic amine of the general type H_2N-CR_1 by
 oxidative hydrolysis. It is noted that the formation
 of the amino ketone hydrolyzed in the presence of an
 amount much less than that of the amino ketone
 mentioned above. The amino ketone was
 apparently insoluble in water and was
 apparatus. The sample of amino ketone hydrolyzed
 was weighed on an analytical balance, dissolved in
 water and added drop by drop to boiling Fehling's
 solution. The volatilized amine compound formed was

(OVI R)

I. 577 p.
absorbed into standard acid of known volume. By
backtitrating the excess acid the amount of amine
formed - equivalent to the amount of amine ketone
present - was calculated.

$\frac{7}{2}$

EXCERPTA MEDICA Sec.17 Vol.4/3 Public Health,etc. Mar58

TUKASIAK, J.

1031. THE APPEARANCE OF THE ANOPHELES-MOSQUITO IN THE WARSAW AREA - Występowanie Anopheles bifurcatus Meigen, 1818 (Anopheles claviger Meig., 1804) na obszarze Warszawy - Tukasiak J. Zakt. Parazytol. Lek. PZH, Warszawa - PRZEGL. EPIDEM. 1957, 11/2 (123-130) Graphs 1 Tables 4

During the period 1952-1955 the author carried out investigations on the presence of malaria carriers, particularly in premises in Warsaw and vicinity. Anopheles bifurcatus was often found. In cow sheds females of the mosquito were prevalent

1031

(78%). In cellars, males were found in 31%. The appearance of the females was observed in the first few days of May, the last female mosquitoes could be noticed at the end of September and on the first days of October. So, the duration of their breeding season is 154 days. During spring and autumn more adult mosquitoes were seen than in summer. Development of the larvae lasted 35 days. They were numerous in spring and autumn, less abundant in summer.

| 1ST AND 2ND COLUMNS | | | | | | | | | | 3RD AND 4TH COLUMNS | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|-------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| PROCESSING AND PROPERTY INDEX | | | | | | | | | | | | | | | | | | | |
| BC | | | | | | | | | | a-4 | | | | | | | | | |
| <p>Determination of gold in animal organs. S. TOKATO and M. LEININGER (Magyar Gyó. Társ. Ért., 1930, 5, 48-54; Chem. Zentr., 1930, 1, 2263-2264). The organs (or urine) is treated with a small quantity of fuming nitric acid and heated in an electric furnace at 300-400°. The residue is treated with 25% hydrochloric acid (2 g. d.s.), freshly prepared chlorine solution (20 g. d.s.), and a filtered aqueous extract (2 g. d.s.) of bleaching powder (10 g. with 90 g. d.s. of water, finally diluted to 100 g. d.s.) and evaporated to dryness. The residue is gently heated with 1-2 drops of 25% hydrochloric acid, 2 g. d.s. of thionine solution, and 5 g. d.s. of water and filtered; the filtrate is boiled with 1-2 drops of phosphoric acid until the chlorine is removed. Microelectrolytic, iodometric, and gravimetric methods for the determination of the gold are described. A. A. RYABOV.</p> | | | | | | | | | | | | | | | | | | | |
| ASTM-ILA METALLURGICAL LITERATURE CLASSIFICATION | | | | | | | | | | | | | | | | | | | |
| 1ST DIVISION | | | | | | | | | | 2ND DIVISION | | | | | | | | | |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | | | | | | | | | | 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | | | | | | | | | |

| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|
| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| <p>✓</p> <p>The production and chemistry of Hungarian rhubarb <i>Sander Tukats. Ber. ungar. pharm. Ges. 13, 454-63</i> (1937). The contents of anthraquinone and emodin in Hungarian rhubarb are equal to those of the drug pre- scribed by Pharm. Hung. IV. Rhaponticin can be detected by the fluorescence microscope. S. S. de F.</p> | | | | | | | | | | | | | | | | | | | |
| <p>17</p> | | | | | | | | | | | | | | | | | | | |
| <p>ASB-11A DETALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | |
| <p>1ST AND 2ND ORDERS</p> | | | | | | | | | | <p>3RD AND 4TH ORDERS</p> | | | | | | | | | |
| <p>1ST AND 2ND ORDERS</p> | | | | | | | | | | <p>3RD AND 4TH ORDERS</p> | | | | | | | | | |

17

Rheum-growing experiments at Szeged, Hungary. II. SANDOR-TURKAY. Mag-
yar Gyógyszerészek Társaság Értéktáza 9, 193-D(1933); cf. following abstr. French
seedlings of *Rheum tanguticum* and *R. officinale* were grown for 3 years. The content
of dry matter of the rhizomes was 46.6-57.6%. Ash content was 7.1-8%, hydroxy-
methylantraquinone 3.8-4.7% (of which 2.2-2.8% was bound as glucoside), emodin
content 1.1-1.6%, chrysophanic acid 1.4-2.96%. S. S. DE FINALLY

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

RECORDS WITH ONLY ONE

RECORDS WITH ONLY ONE

The welding of stainless EJa-IT steel. I. I. Tukatsup, *Atmosfera* No. 8, No. 8, 27-34(1957). *Chem. Zvez.* 1958, 1, 4231.—It is recommended that austenitic stainless Cr-Ni steel (18% Cr, 8-9% Ni, and 0.4-0.6% Ti) be welded with the use of an electrode coating made up of 50 parts by wt. of marble, 50 parts fluor spar, and 15 parts ferromanganese to which has been added 28 cc. water glass and 70 cc. water per 500 g. of dry material. Data are given regarding the carrying out of the working.

At 6:30 p.m.

AS 14.364 METALLURGICAL LITERATURE CLASSIFICATION

0 104 5 10 0 0 1 0 0

VALUATION OF CASE 381

4343151

9.25% 9.75% 10.25%

[illegible]

| 1ST AND 2ND ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROCESSING AND PROPERTY DATA | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Autogenous welding of technically pure nickel. I. I. Lukh'inskiy. <i>Autogenous Welds</i> 1930, No. 6, 17-18. Welding should be carried out on the right (outer) side of the metal, applying a flux of the compn.: H_2O, 50, borax 30, $NaCl$ 10 and $BaCO_3$ 10%. After welding, the seam should be calked in the cold with a copper hammer, and heated at 870-1000° in the absence of air and without contacting the flame; this results in a 47-64% increase of resistance to rupture. A. A. Podgorny</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

TUKATSINSKIY, I.L., inzh.; NARKEVICH, V.Ya.

Modernizing obsolete hydraulic presses. Vest.mash. 42 no.4:68-
69 Ap '62. (MIRA 15:4)
(Hydraulic presses—Technological innovations)

LEVIN, S.Z.; DINER, I.S.; KUCHINSKIY, V.N.; Prinsipali uchastiye:
MOLDAVSKIY, B.L.; KUCHINSKAYA, Z.Ye.; BAULIN, V.A.;
ZISEL'SON, Kh.L.; TUKAY, O.P.

Synthesis of dicyclohexylamine nitrite, an inhibitor of
the atmospheric corrosion of metals. Khim.prom. no.9:566-570
Ag '62. (MIRA 15:9)
(Cyclohexylamine) (Metals--Corrosion)

TUKAYEV, A.G.

Unsteady fluid flow in a nonuniform layer. Izv. vys. ucheb.
zav.; neft' i gaz 3 no.4:55-60 '60. (MIRA 15:6)

1. Kazanskiy gosudarstvennyy pedagogicheskiy institut.
(Oil reservoir engineering)

TUKAYEV, A.G.

Determining the function of pressure in layers of petroleum fields of uneven permeability. Izv.vys.ucheb.zav.; neft' i gaz 3 no.6:111-118 '60. (MIRA 13:7)

1. Kazanskiy gosudarstvennyy pedagogicheskiy institut.
(Oil reservoir engineering)

TUKAYEV, A.G.

Problem of determining the pressure function in layers in variable thickness under elastic conditions. Dokl. AN SSSR 134 no.6:1317-1319 0 '60. (MIRA 13:10)

1. Kazanskiy gosudarstvennyy pedagogicheskiy institut. Predstavleno akademikom P.Ya.Kochinoy.
(Hydraulics)

TUKAYEV, A.G.

Constructing functions of pressure in a partially permeable and piezoconductive layer of varying thickness. Izv. vys. ucheb. zav.; neft' i gaz 4 no.11:41-46 '61. (MIRA 17:2)

1. Kazanskiy gosudarstvennyy pedagogicheskiy institut.

TUKAYEV, A. G.

Cand Phys-Math Sci - (diss) "Solution of boundary problems related to the determination of the function of pressure in petroleum beds." Kazan', 1961. 8 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Kazan Order of Labor Red Banner State Univ imeni V. I. Ul'yanov-Lenin); 120 copies; price not given; (KL, 5-61 sup, 174)

TRKAYEVA, L.A. [deceased]

deceased
1964

Some hemodynamic indicators of blood circulation insufficiency
in patients treated with the new native glycosides olitoriside
and strophanthin K. Vop.biol.i kraev.med. no.3:234-240 '62.

(MIRA 16:3)

(BLOOD—CIRCULATION, DISORDERS OF)
(OLITORISIDE) (STROPHANTHIN)

PROSVETOVA, G.I.; TUKAYEVA, S.A.; YAKUBOVICH, F.S.

Effectiveness of hormonal preparations in the combined treatment of Botkin's disease. Zdrav. Kazakh. 23 no.2:44-49'63.
(MIRA 16:10)

1. Iz kafedry infektsionnykh bolezney Karagandinskogo meditsinskogo instituta.
(HEPATITIS, INFECTIOUS) (ADRENOCORTICAL HORMONES)
(ACTH)

7.12.1955, 4. H.
VOYTKEVICH, A.A.; SIDORKINA, M.Ya; KHOMULIO, G.V.; GORDINA, S.M.;
MUNAYBASOVA, G.A.; TUKAYEVA, S.A.; NEGOVSKAYA, A.V.; SMIRNOV,
Ye.P. (Alma-Ata)

Role of the thyroid hormone in the activity of the macrophage
system. Probl. endokr. i gorm. 1 no.2:20-25 Mr-Apr '55 (MLRA 8:10)

1. Iz Kazakhskogo meditsinskogo instituta imeni V.M. Molotova i
Voronezhskogo meditsinskogo instituta.

(MACROPHAGES, effect of drugs on,
thyroxin)

(THYROXIN, effects,
on macrophages)

TUKAYUTE, Ye. P.

"Investigation of the Small-Flowered Touch-Me-Not Weed and Its
Use in Calenic Preparations." Cand Pharm Sci, Tartu State U, Tartu,
1954. (RZhKhim, No 17, Sep 54)

SO: Sum 432, 29 Mar 55

| 1ST AND 2ND ORDER | | | | | | | | | | 3RD AND 4TH ORDER | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| <p><i>Gas Welding of Technically Pure Metal. I. I. Takasinsky (Izvestiya Delo (Autogenous Practice), 1938, (6), 17-18).—(In Russian.) The need for protection from oxidation and sulphur absorption is indicated. As a protective flux: boric acid 50, borax 30, salt 10, and barium carbonate 10%, may be used. Autocasting at 870°-890° C, after welding is necessary, air being excluded.—N. A.</i></p> | | | | | | | | | | | | | | | | | | | |
| <p>ASTM-A5A METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | <p>ASTM-A5A METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | |
| <p>ASTM-A5A METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | <p>ASTM-A5A METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | |

TUKBAYEV, V.

PA 9T32

USSR/Radar

Feb 1947

"Radar Stations," V. Tukbayev, 5 pp

"Radio" Vol XX, No 2 (Conclusion of article begun in No 1)

Subject discussed under following headings: power of the sounding and reflected impulses; determination of distance; determination of the azimuth; determination of the height; automatic tracking; identification of the target; and development of construction. Article includes table giving technical data on types of radar stations.

9T32

USSR/Radar

Feb 1947

"Radar Stations," V. Tukbayev, 5 pp

"Radio" Vol XX, No 2 (Conclusion of article begun in No 1)

Subject discussed under following headings: power of the sounding and reflected impulses; determination of distance; determination of the azimuth; determination of the height; automatic tracking; identification of the target; and development of construction. Article includes table giving technical data on types of radar stations.

9T32

TUKBAYEV, V.

PA 22/49T40

USSR/Engineering
Ships
Radar

Oct 48

"Review of Z. Perlya's Book, 'Fighting Ships,'"
V. Tukbayev, $\frac{1}{2}$ p

"Radio" No 10

Notes certain inaccurate statements on radar
in Perlya's book.

LC

22/49T40

| 1ST AND 2ND CROSS | | 3RD AND 4TH CROSS | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
| PROCESSES AND PROPERTIES INDEX | | | |
| <p>3674. CHROMATOGRAPHIC TITROMETRIC GAS ANALYSER. Tukul'taub, NM (Zavodskaya Lab. (Factory Lab.), June 1949, vol. 15, 653-660). Develops chromatographic method of separate determination of micro concentrations of hydrocarbons. Construction of simple gas analyser, particularly applicable in field conditions, is illustrated schematically.</p> | | | |
| A 65-51.4 METALLURGICAL LITERATURE CLASSIFICATION | | FROM BOWLING | |
| FROM STYLING | | FROM BOWLING | |
| FROM STYLING | | FROM BOWLING | |

YEROPKIN, V.G.. Prinimali uchastiye: TUKEMBAYEV, A.; KAZAKOVA, G.,
laborant. LAYLIYEV, D.S., red.; ANOKHINA, M.G., tekhn.red.

[Mechanization and electrification of collective farms in
Kirghizistan] Mekhanizatsiia i elektrofikatsiia kolxoznogo
proizvodstva Kirgizii. Frunze, Akad.nauk Kirgizskoi SSR,
Institut ekonomiki, 1959. 128 p. (MIRA 13:7)
(Kirghizistan--Electrification)
(Kirghizistan--Collective farms)

TUKEMBAYEV, A.; MURATALIYEV, B., otv. red.; ANOKHINA, M.G., tekhn. red.

[A concise dictionary of economics terminology; draft] Kratkii slovar'
terminov po politicheskoi ekonomii; proekt [russko-kirgizskii]. Frunze,
Izd-vo AN Kirgizskoi SSR, 1961. 150 p. (MIRA 14:12)
(Economics--Dictionaries) (Russian language--Dictionaries--Kirghiz)

TUKH, A.I.

Reticulocytoma of the nasopharynx. Vest.oto-rin. 19 no.4:97-98
Jl-Ag '57. (MIRA 10:11)

1. Iz Tallinskoy respublikanskoy bol'nitsy.
(NASOPHARYNX, neoplasms
reticulum cell sarcoma)
(SARCOMA, RETICULUM CELL, case reports
nasopharynx)

TUKH, A.I.

Plasmocytoma of the pharynx. Vest. otorin. 22 no.4:94-95 Je-Ag
'60. (MIRA 13:12)

(PHARYNX—TUMORS)

TUKH, I., inzh.

Manufacturing lightweight ceramic products in Estonia. Stroi. mat.
4 no.3:31-33 Mr '58. (MIRA 11:3)
(Tallinn--Ceramic materials)

15(2)

PHASE I BOOK EXPLOITATION

SOV/1746

Tukh, I.I.

Proizvodstvo listovogo stekla metodom vertikal'nogo vytyagivaniya
(Manufacturing Sheet-Glass Using the Vertical Drawing Method)
Moscow, Gosstroyizdat, 1958. 226 p. 2,000 copies printed.

Scientific Ed.: L.M. Butt; Ed. of Publishing House: S.A. Gladysheva;
Tech. Eds. L.Ya. Medvedev, and N.I. Rudakova,

PURPOSE: This book is intended for mechanics and technicians interested in the theoretical basis of glass production.

COVERAGE: The book describes the equipment and principal glass-producing methods used in the Soviet Union and is based primarily on techniques developed by the author for the glass plant "Yarvakandi", Estonian SSR, where he worked as chief engineer. It further draws upon the works of I.V. Grebenshchikov, I.I. Kitaygorodskiy, N.N. Kachalov, O.K. Botvinkin and non-Soviet scientists on glass-melting processes, optimum chemical compositions

Card 1/8

Manufacturing Sheet-Glass (Cont.)

SOV/1746

of glass and the most favorable conditions for vitrification.
The foreword is written by Professor I.I. Kitaygorodskiy, Doctor
of Technical Sciences. There are 31 Soviet references.

TABLE OF CONTENTS:

| | |
|-----------------------------------|----|
| Foreword | 3 |
| Introduction | 5 |
| Ch. I. Basic Information on Glass | 8 |
| Vitreous state of substances | 8 |
| Viscosity | 9 |
| Chemical composition | 10 |
| Ch. II. Raw Materials | 12 |
| Quartz sand | 12 |
| Soda | 14 |
| Sodium sulfate ("sulfate") | 14 |
| Dolomite | 16 |
| Limestone, chalk, marble | 16 |
| Argillaceous raw materials | 17 |
| Feldspar | 17 |

and 2/8

Manufacturing Sheet-Glass (Cont.)

SOV/1746

| | |
|-----------------------------------------------------------------|----|
| Pegmatite | 18 |
| Kaolin and clay | 18 |
| Raw materials which improve glass quality and accelerate fusion | 18 |
| Potash | 19 |
| Boron-containing materials | 19 |
| Fluorspar | 20 |
| Sodium fluosilicate | 20 |
| Glass cullet | 20 |
| Ch. III. Preparation of Raw Materials | 21 |
| Storage and intra-plant transport of raw materials | 21 |
| Processing of raw materials | 25 |
| Enrichment of the sand | 25 |
| Processing of dolomite and limestone | 29 |
| Processing of soda | 30 |
| Processing of sulfate | 30 |
| Processing of other raw materials | 31 |

Card 3/8

Manufacturing Sheet-Glass (Cont.)

SOV/1746

| | |
|----------------------------------------------------------------------------|----|
| Checking batch composition | 31 |
| Determination of dolomite content | 32 |
| Determination of feldspar content | 33 |
| Determination of limestone content | 33 |
| Determination of sand content | 34 |
| Determination of alkali content | 34 |
| Checking the calculation of glass composition | 35 |
| Some additional calculations necessary for estimating batch composition | 36 |
| Batch preparation | 40 |
| Uniformity of the batch | 40 |
| Composition of the batch | 43 |
| Storage and transport of the batch | 46 |
| Flow diagram of combined departments | 46 |
| Ch. IV. Glass Melting | 47 |
| Theory of glass melting | 47 |
| Phases of glass melting | 48 |
| Glass quality and the glass-melting process | 51 |
| Construction of bath-type glass-melting furnaces | 53 |
| The furnace tank | 54 |
| Structure of the upper part of the furnace | 68 |
| Arrangements for the recovery of waste heat | 75 |
| Transfer devices | 77 |
| Card 4/8 | |

Manufacturing Sheet-Glass (Cont.)

SOV/1746

| | |
|-------------------------------------------------------------------------|-----|
| Glass manufacturing practice | 78 |
| Loading a furnace with charge and cullet | 78 |
| Temperature conditions of a furnace | 83 |
| The influence of temperature on the finish of glass | 84 |
| The influence of thermal processes on the economy of glass-melting | 87 |
| Ch. V. Glass Production | 90 |
| The influence of the thermal history of glass on its working properties | 90 |
| Construction of working tanks | 91 |
| Consecutive arrangement of machinery | 93 |
| Direct arrangement of machinery | 93 |
| The principle of ribbon formation | 96 |
| Methods of glass production | 97 |
| Trough (Fourcault) method | 97 |
| Glass-drawing methods not employing troughs | 117 |
| A method of glass-drawing which employs a heat regulator | 127 |
| Tempering and cooling glass ribbon | 128 |
| Tempering phases | 128 |

Card 5/8

Manufacturing Sheet-Glass (Cont.)

SOV/1746

| | |
|-------------------------------------------------------------------------|-----|
| Re-establishment of tempering conditions after the start of machine VVS | 130 |
| Interruption of tempering conditions | 131 |
| Safety techniques and labor protection | 131 |
| Ch. VI: Cutting Sheet Glass | 134 |
| Cutting glass sheets from ribbon | 134 |
| Cutting-off glass mechanically | 134 |
| Glass cooling | 138 |
| Laying-out glass | 138 |
| Glass sorting, packing, and quality control | 141 |
| Consumption of non-conditioned glass | 143 |
| Safety techniques | 144 |
| Ch. VII. Heat Control in Sheet-Glass Production | |
| Ch. VIII. Defects in Glass | 151 |
| Occlusion of gases | 152 |
| Defects in the glass itself | 155 |
| Mechanical defects | 162 |

Card 6/8

Manufacturing Sheet-Glass (Cont.)

SOV/1746

| | |
|-----------------------------------------------------------|-----|
| Ch. IX. Production of Ceramic Refractories | 164 |
| Requirements placed on ceramic products | 164 |
| Raw materials | 164 |
| Properties of raw materials | 164 |
| Processing raw materials | 166 |
| Preparation of ceramic products | 171 |
| Preparation of slotted troughs | 171 |
| Preparation of under-bridge pans | 177 |
| Preparation of tank blocks | 178 |
| Preparation of bridges and molding blocks | 178 |
| Ch. X. Gasification of Fuel | 180 |
| Fuel properties | 180 |
| Processes occurring in the gas generator | 181 |
| Factors affecting the gasification process | 183 |
| Operational conditions of gas generators | 185 |
| The effect of gas components on the vitrification process | 187 |
| Construction of gas generators | 188 |
| Gas pipelines | 191 |

Card 7/8

Manufacturing Sheet-Glass (Cont.)

SOV/1746

| | |
|-------------------------------------------------------------|-----|
| Drying and scrubbing gas | 191 |
| The effect of moisture on the vitrification process | 191 |
| Gas drying | 192 |
| The effect of gas drying on the glass-manufacturing process | 193 |
| Increasing the calorific value of a gas | 193 |
| Safety techniques on servicing gas generators | 194 |

Ch. XI. Increasing Refractory Life and the Maintenance of
Furnaces

| | |
|-----------------------------------------------|-----|
| Ways of reducing the wear on furnace parts | 196 |
| Cooling the tank | 196 |
| Cooling the upper part of a furnace | 197 |
| Furnace insulation | 202 |
| Maintenance of a furnace during its operation | 203 |
| Storage of refractories | 207 |
| Repairing a cool furnace | 207 |
| Preparation for repairs | 208 |
| Making repairs | 209 |

| | |
|----------|-----|
| Appendix | 220 |
|----------|-----|

| | |
|--------------|-----|
| Bibliography | 223 |
|--------------|-----|

AVAILABLE: Library of Congress

TM/ad
6-24-59

Card 8/8

TUKH, I.I.

Installation of protective boats in furnaces. Stek.1 kor. 14
no.6:8-9 Je '57. (MIRA 10:7)
(Glass furnaces)

TUKH, I.I.

Replacing the bridge of a drawing chamber in a tank at work. Stek.
1 ker. 13 no.3:28-29 Mr '56. (MIRA 9:6)
(Glass manufacture)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410009-7

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410009-7"

TUKH, I. I.

Glass Manufacture

Controlling the cleanliness of the regenerator brickwork. Stek. i ker. 9 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1953. Unclassified.

ТУХЕ, Т. И.

Formation of bubbles by increasing the transparency of glass.
 T. I. TUKH. *Steklo i Keram.*, 7 [6] 21 (1959). A change-over to more transparent glass can be made during operation without changing the glassmelt and cleaning the tank. The charge was changed several times without draining the glass: FeO , in sand was reduced from 0.25 to 0.10%, in dolomite from 0.55 to 0.32%, and from 0.32 to 0.05%, and in lime-tong from 0.2 to 0.06%, and Aral sulfate was replaced with themardite. This resulted in a gradual increase of transparency from 78 to 81% (checked over a 10-min. layer) without increasing the number of bubbles. When changing the composition of the charge, one component was at once and completely replaced by another. Cullet from the same furnace, of a new composition, was used and was reduced to 10 to 12% because there was not enough. The temperature conditions were not changed until the lowest viscosity of the glass was observed on the machines; then the temperature was changed during 1-2 shifts (10 to 15 hr.) uniformly along the furnace length, without changing the temperature curve. The curve 1360-1380-1390-1250-1125° was gradually changed to the curve 1380-1350-1300-1220-1105°C.

B.Z.K.

ASM-SLA METALLURGICAL LITERATURE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Combating the formation of alkaline bubbles and discoloration of glassmelt. L. G. GOL'DENBERG. *Steklo i Keram.*, 7 [6] 21-23

1ST AND 2ND ORDERS
3RD AND 4TH ORDERS

1ST AND 2ND ORDERS
3RD AND 4TH ORDERS

Method of determining the nature of stones in glass. I. I.

Tukh. *Steklo i Keram.*, 7 [8] 9-10 (1950).—For ordinary, alumina-magnesia glass $n = 1.628$, as calculated by the law of additivity; similar calculations for glass saturated with SiO_2 or Al_2O_3 from the stone dissolving in the glass give $n < 1.63$ for glass + grog and $n \geq 1.63$ for glass + Dinas. Determinations are made with an ordinary optical bench of the school type. The 20 x 30-mm. specimen is placed in a glass bath and projected on a screen; then a liquid prepared from kerosene and benzol and having an n close to 1.5 is poured into the bath. The view of a grog stone will disappear on the screen, whereas that of a Dinas stone will not. To obtain a more distinct view, the liquid is colored with carmine. The screen should be 10 to 15 cm. The determination lasts 2 to 3 min. and may be made in a lighted room. 2 photos.

B.Z.K.

AS N. S. L. A METALLURGICAL LITERATURE CLASSIFICATION

| MATERIAL INDEX | | | | | | | | | | AUTHOR INDEX | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|----|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | |
| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |

OPEN

COMMON VARIABLES INDEX

1051

PUKH, I.I.

Glass Manufacture

Controlling the cleanliness of the regenerator brickwork. Stek. i ker. 9 No. 4, 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

TUKH, I.I., inzh.; BUTT, L.M., nauchnyy red.; GLADYSHEVA, S.A., red.
izd-va; MEDVEDEV, L.Ya., tekhn.red.; HUDAKOVA, N.I., tekhn.red.

[Manufacturing sheet glass by the vertical drawing method]
Proizvodstvo listovogo stekla metodom vertikal'nogo vytiagi-
vania. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit.
materialam, 1958. 226 p. (MIRA 12:2)
(Glass manufacture)